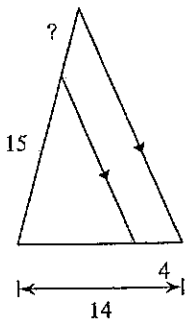
Mrs. Hayden

Kuta Software - Infinite Geometry Name_____

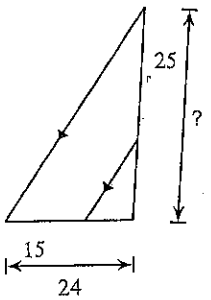
Proportional Parts in Triangles and Parallel Lines Date_____ Period____

Find the missing length indicated.

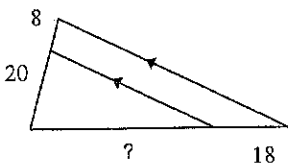
1)



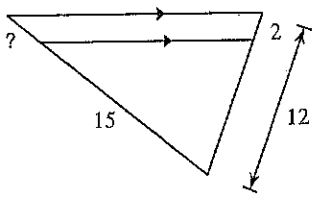
2)



3)

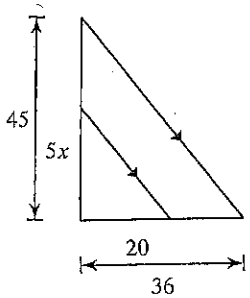


4)



Solve for x.

5)



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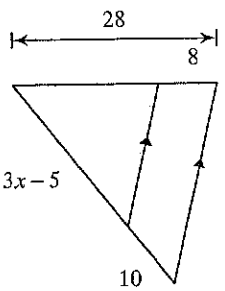
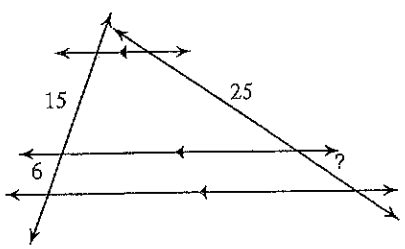


Find the missing length indicated.

7)



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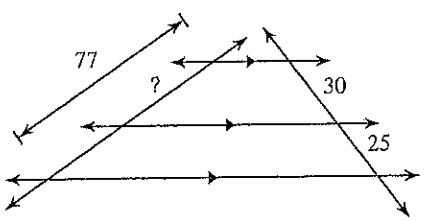
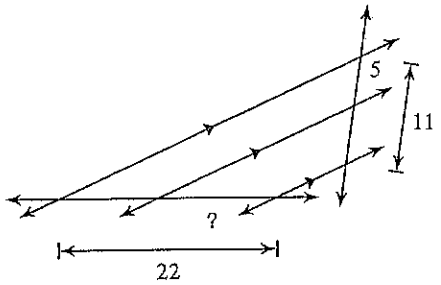
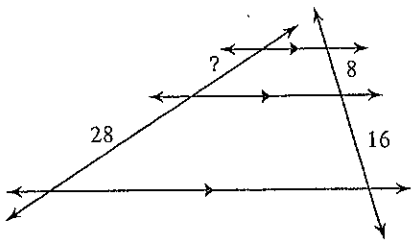


9)

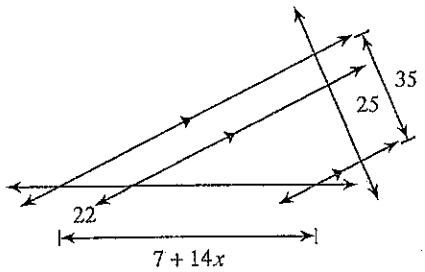


10)

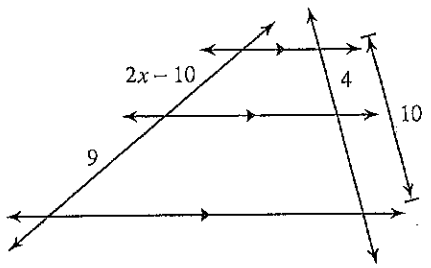


Solve for x.

11)

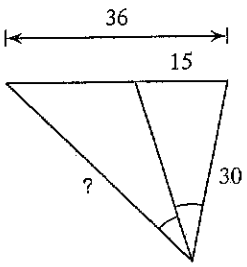


12)

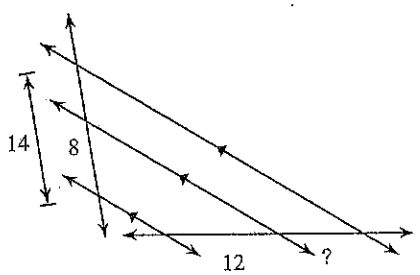


Find the missing length indicated.

13)



14)



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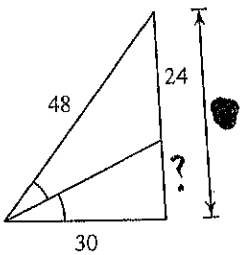
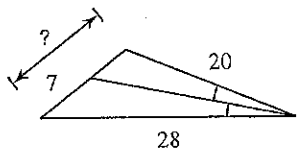
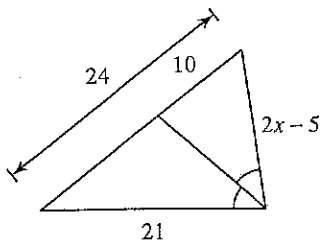


16)

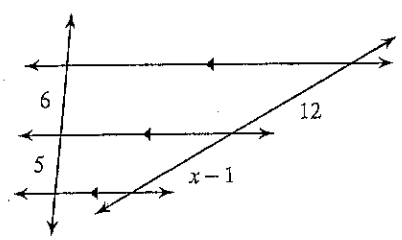


Solve for x.

17)

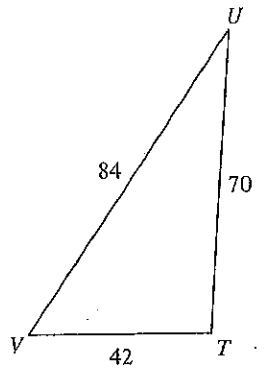


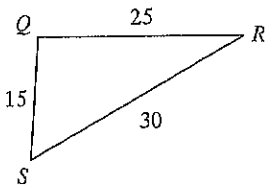
18)



State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

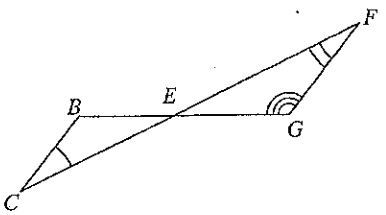
7)





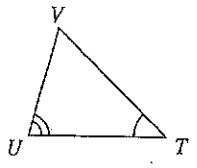
$\Delta TUV \sim$ _____

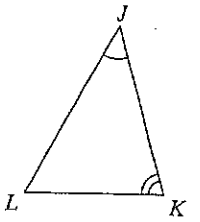
8)



$\Delta EFG \sim$ _____

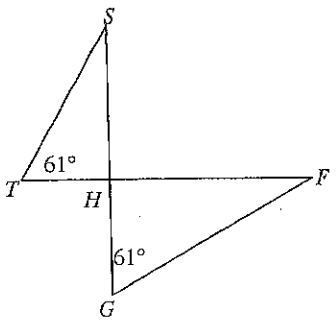
4)





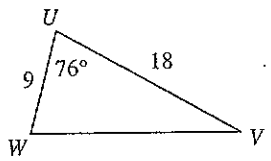
$\Delta JKL \sim$ _____

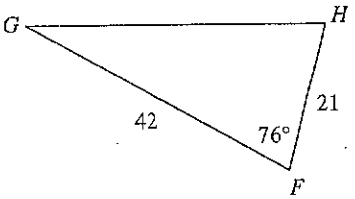
9)



$\Delta HGF \sim$ _____

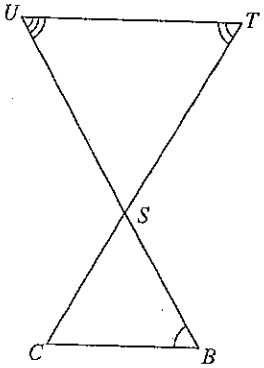
10)





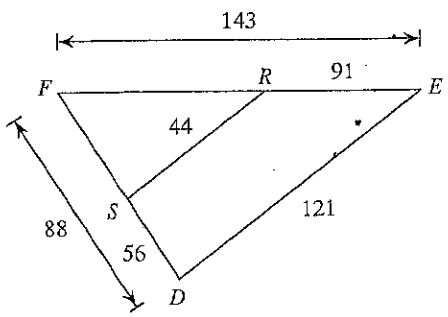
$\Delta FGH \sim$ _____

5)



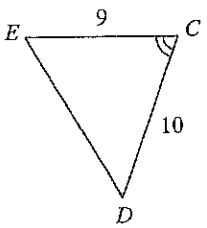
$\Delta STU \sim$ _____

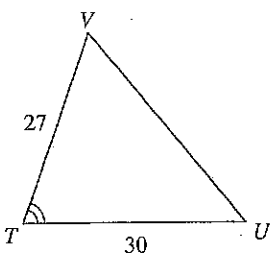
11)



$\Delta FED \sim$ _____

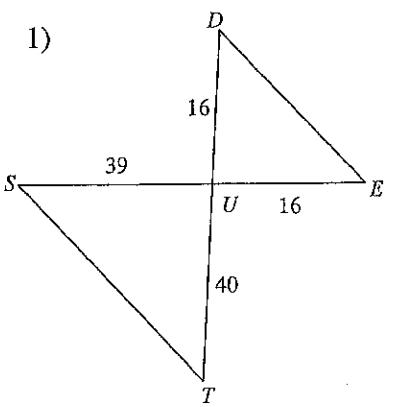
12)





$\Delta TUV \sim$ _____

1)



$\Delta UTS \sim$ _____